

WHAT IS CLAIMED IS:

1           1.    A system for maintaining availability of network  
2 resources in an IP-based system, comprising:

3           at least one primary radio network server, said at least  
4 one primary radio network server coupled to an IP network in  
5 said IP-based system and associated with at least one location  
6 area;

7           at least one radio base station, said at least one radio  
8 base station coupled to said at least one primary radio network  
9 server and said IP network for communication therebetween;

10          at least one secondary radio network server coupled to said  
11 IP network; and

12          a lookup medium coupled to said IP network, said lookup  
13 medium operable to store address information associated with  
14 said at least one secondary radio network server, and responsive  
15 to an operational failure of said at least one primary radio  
16 network server, said at least one radio base station operable to

1 retrieve said address information and connect to said at least  
2 one secondary radio network server.

3 2. The system of Claim 1, wherein said lookup medium  
4 comprises a lookup server.

5 3. The system of Claim 1, wherein said lookup medium  
6 comprises a DHCP server.

7 4. The system of Claim 1, wherein said lookup medium  
8 comprises a database.

9 5. The system of Claim 1, wherein said system further  
10 comprises an IP-based Base Station System.

11 6. The system of Claim 1, wherein said at least one  
12 secondary radio network server further comprises a standby Radio  
13 Network Server.

1           7. A system for maintaining availability of network  
2 resources in an IP-based system, comprising:

3           a plurality of radio network servers, each of said  
4 plurality of radio network servers coupled to an IP network in  
5 said IP-based system and associated with at least one location  
6 area;

7           at least one radio base station, said at least one radio  
8 base station coupled to a first radio network server of said  
9 plurality of radio network servers and said IP network for  
10 communication therebetween; and

11           a lookup medium coupled to said IP network, said lookup  
12 medium operable to store address information associated with  
13 said each of said plurality of radio network servers, and  
14 responsive to an operational failure of said first radio network  
15 server, said at least one radio base station operable to  
16 retrieve said address information and connect to at least a  
17 second radio network server of said plurality of said radio  
18 network servers.

1           8.    The system of Claim 7, wherein said at least one radio  
2   base station is selected for communication with said at least a  
3   second radio network server based on a priority ranking  
4   associated with a plurality of radio base stations.

5           9.    The system of Claim 7, wherein said lookup medium  
6   comprises a lookup server.

7           10.   The system of Claim 7, wherein said lookup medium  
8   comprises a DHCP server.

9           11.   The system of Claim 7, wherein said lookup medium  
10   comprises a database.

11           12.   The system of Claim 7, wherein said system further  
12   comprises an IP-based Base Station System.

1           13. A method for maintaining availability of network  
2 resources in an IP-based system, comprising the steps of:

3           coupling at least one primary radio network server to an IP  
4 network in said IP-based system;

5           associating said at least one primary radio network server  
6 with at least one location area;

7           coupling at least one radio base station to said at least  
8 one primary radio network server and said IP network for  
9 communication therebetween;

10          coupling at least one secondary radio network server to  
11 said IP network;

12          storing in a lookup medium address information associated  
13 with said at least one secondary radio network server; and

14          said at least one radio base station retrieving said  
15 address information and connecting to said at least one  
16 secondary radio network server responsive to an operational  
17 failure of said at least one primary radio network server.

1           14. The method of Claim 13 wherein said lookup medium  
2 comprises a lookup server.

3           15. The method of Claim 13, wherein said lookup medium  
4 comprises a DHCP server.

5           16. The method of Claim 13, wherein said lookup medium  
6 comprises a database.

7           17. The method of Claim 13, wherein said system further  
8 comprises an IP-based Base Station System.

9           18. The method of Claim 13, wherein said at least one  
10 secondary radio network server further comprises a standby Radio  
11 Network Server.

1           19. A method for maintaining availability of network  
2 resources in an IP-based system, comprising:

3           coupling a plurality of radio network servers to an IP  
4 network in said IP-based system;

5           associating each of said plurality of radio network servers  
6 with at least one location area;

7           coupling at least one radio base station to a first radio  
8 network server of said plurality of radio network servers and  
9 said IP network for communication therebetween; and

10          storing in a lookup medium address information associated  
11 with said each of said plurality of radio network servers; and

12          said at least one radio base station retrieving said  
13 address information and connecting to at least a second radio  
14 network server of said plurality of said radio network servers,  
15 responsive to an operational failure of said first radio network  
16 server.

1           20. The method of Claim 19, wherein said at least one  
2 radio base station is selected for communication with said at  
3 least a second radio network server based on a priority ranking  
4 associated with a plurality of radio base stations.

5           21. The method of Claim 19, wherein said lookup medium  
6 comprises a lookup server.

7           22. The method of Claim 19, wherein said lookup medium  
8 comprises a DHCP server.

9           23. The method of Claim 19, wherein said lookup medium  
10 comprises a database.

11           24. The method of Claim 19, wherein said system further  
12 comprises an IP-based Base Station System.